

34587-C-PCT-USA-I

SEQUENCE LISTING

<110> Fisher, Paul B.

<120> Reciprocal Subtraction Differential
Display

<130> 34587-C-PCT-USA-I

<140> To Be Assigned

<141> 2003-02-12

<150> US 09/644,460

<151> 2000-08-23

<150> PCT/US99/04323

<151> 1999-02-26

<150> US 09/197,889

<151> 1998-11-23

<150> US 09/185,115

<151> 1998-11-03

<150> US 09/032,684

<151> 1998-02-27

<160> 42

<170> FastSEQ for windows Version 4.0

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<211> 371

<212> DNA

<213> rattus norvegicus

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<221> unsure

<222> 5, 93, 153, 199, 217, 218, 221, 247, 259, 260, 274, 333,
335, 358, 360

<223> c, t, a or g

<221> misc_feature

<222> (1)...(371)

<223> n = A,T,C or G

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attagcccag aaactgacca tcagactgtc aancagggtac cggataggcc agttaattga

120

aataaacagc cacagcctat tttctaagtg gtnttcagaa agtggcaagt tggttaactaa

180

gatgttccag aagattcang acttgattga tgataannaa nctttgggtg ttgtcctgat

240

tgatgangta agcactcann ggtactcatt cttngtctgc attgcctctt gctattactg

300

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360

ccacccgttt c

371

<210> 2

<211> 245

<212> DNA

<213> rattus norvegicus

<400> 2

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tgacaatact cggccaacaa ttcttgcata gagtgctgat aaataactat gttacaaaaa

120

gggggtgtcc ctggagaaca ttacaggctt ccctaggtaa gtgtgcaggt caggagacgg

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catattcaat cagatggctg atagttctcc gtggttatgc accggctcca gcttgccctac

240

gtcac

245

<210> 3

<211> 178

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 140, 163

<223> c, t, a or g

<221> misc_feature

<222> (1)...(178)

<223> n = A,T,C or G

<400> 3

gcagcatgat gaatttaatg caacagtcac agcagggcaa ggggagagaa aggcagatgg 60
actatctgca tcatcaagcg agggcttggtg tcggcggcta tgtgcagaga cgagcagggc

120

gaggcactta aaagctgctn gatgaaaatc caccagaggag aantctgggc ctacgtca

178

<210> 4

<211> 191

<212> DNA

<213> rattus norvegicus

<400> 4

tgacgtaggc ccagacttct cctgggtgga ttttcatcca gcagctttta agtgcctcgc 60
cctgctcgtc tctgcacata gccgccgaca caagccctcg cttgatgatg cagatagtcc

120

atctgccttt ctctccccctt gccctgctat gactgttgca ttaaattcat catgctgccca

180

aaaaaaaaaa a

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191

<210> 5
<211> 124
<212> DNA
<213> rattus norvegicus

<400> 5
gccataaata cactttatct cattcgaaat gcataatcac actgggagca ctccctttgg 60
agcactcctc tagcagcagg tccgaagtgc tccagcatcg tcagctggct ccaacaccta

120
cgtc

124

<210> 6
<211> 61
<212> DNA
<213> rattus norvegicus

<400> 6
tttttttttt tttggaaaca gaataaagtg ctttattctc tggctggctc tcctacgtca 60
c 61

<210> 7
<211> 216
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 145
<223> c, t, a or g

<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

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ttaagaatgg gtttaaaactt gctgaacgta aagattgacc ctcaagtcac tgtagcttta

120
gtacttgctt attgtattag tttanatgct agcaccgcat gtgctctgca tattctgggt

180
ttattaaaat aaaaagttga actgcaaaaa aaaaaa

216

<210> 8
<211> 334
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 42, 107, 126
<223> c, t, a or g

<221> misc_feature
<222> (1)...(334)

<223> n = A,T,C or G

<400> 8

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ctttattatt attattatta ttattattat tataaataaa acatgtncct tcaattaggt

120

tacaanagta tttatctcca taacgcttct tcatacatcc ttagttttgg attaaagtac

180

catccacccc aactcaaact gtaaccccca gtaatcccct ctaacgtgga aatttctggt

240

ttaacaactc agttaactgc cccacaaaca gtgggaggcc gctcttgcat ggctatgcc

300

cgtaaccctt cactgcttca cttcttcgct ggct

334

<210> 9

<211> 136

<212> DNA

<213> rattus norvegicus

<400> 9

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ctggctggca ctgtactcag gccggaagcc cagctcgtcc cggttcttga caaagcaagt

120

tggatggtac aagcgg

136

<210> 10

<211> 316

<212> DNA

<213> rattus norvegicus

<400> 10

tgccgagctg ggtattgtga cggttgataa tggcggcatc atgttgccag gtaccgggta 60
agcagacctc agagcacagc ttattgtcca gtgctttcac gctcgcgacg tcaaagtc

120

tgttattgtc aactccatg cctagaaatg cgcattgcct ctggccatct tcttgacag

180

gggatctgtc ctcttctctc atgatcatc ttccctctgc atcctgctct ccagctggaa

240

ggccagcaaa attgctgtct ggggactctg ctggggctct ctctcttct gaaggggccc

300

tgctagcagc tcggca

316

<210> 11

<211> 337

<212> DNA

<213> rattus norvegicus

<220>

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<221> unsure
<222> 254, 255, 256, 305, 318
<223> c, t, a or g

<221> misc_feature
<222> (1)...(337)
<223> n = A,T,C or G

<400> 11
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tgagtctcac gtagccgagt ttaatatctg tgctatttac taaagtatct gccaccaa

120
tgtaccaact catagtttta tatgaatggt gatgagtctg tatcataaat agaattgttg

180
atacatcctt aatttgtgca atattgtatg aagaagattg ttatcaatta aaaccacgcc

240
tctttatgat cctnnnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

300
aaccncctca aatccatngg ttctaaccga aaaccct

337

<210> 12
<211> 307
<212> DNA
<213> rattus norvegicus

<400> 12
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aacctgagaa taagtcacca gctcttgaca gtaaacatgg gccctatcaa attatattag

120
actcctcagt gtcccgccat gtggccttgc accaaatcaa ttagtttgag ggccaaaatc

180
ctgttgggtt tcaaataaag tgcagggtca taaggagggg gagggactca attcatggga

240
acatttttac ctgttcaaag agataaactg aattgcccta tctgtgggtca cctggatcca

300
agaccct

307

<210> 13
<211> 296
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 59, 101, 110, 122, 131, 133, 148, 189, 191, 198
<223> c, t, a or g

<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

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<400> 13
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gaaataaaca aacacagctt attatttggg ggaacattaa nttctataa tgaacacaaa

120
anaaaattaa nanttaatgg gggggtanaa gggactttga atctatctgg tatcatgaca

180
ttgaagcana nacctgantg accagaaaga gagagagaga gagagagaga gagagagaga

240
gagaggtttc atatgagcta gtgttacagg ctttattagt ctattagtca gggacc

296

<210> 14
<211> 319
<212> DNA
<213> rattus norvegicus

<400> 14
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tctgaaagcg ggcttcacaa aaactactgc gccacccgac tcgctgcggc atcgcccggg

120
ggcgagtacc gtatgcctt tcctgggtgca gaagaagtgt ttacaggagg cggtcattta

180
ccgcaatctg attctgtttt ttattctccc tggcgggtga tcgcgatcgg cagtttgaaa

240
acgatcgttg aatccacgct cgggaatgat gtggcttcgc cgccaacgct tactgacatt

300
tcatttgtac agcccgatt

319

<210> 15
<211> 287
<212> DNA
<213> rattus norvegicus

<400> 15
gccgagctgt gtaaaacat ctatcctctg gcagatctac ttgccaggcc actcccaggg 60
ggggtagacc ctctaaagct tgagatttat cttacagatg aagacttcga gtttgactc

120
gacatgacca gagatgaatt caacgcactg cccacctgga agcaaatgaa cctgaagaaa

180
gcgaaaggcc tgttctgagg gtgagatgac agccacagag aggtcactgc cactagacca

240
gaaagtggat ggagatatat atttggactg gtgttttttt ctgtcag

287

<210> 16
<211> 344
<212> DNA
<213> rattus norvegicus

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<220>
 <221> unsure
 <222> 208, 269, 337
 <223> c, t, a or g

<221> misc_feature
 <222> (1)...(344)
 <223> n = A,T,C or G

<400> 16
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 actcatgacc aggctcggaa gcggctcacc aaacgttcgg aggaagtggc ccgcctgctg

120
 gtgactcggc agtctctgca gaaggccgta cagcagtcca tgctgtcata gctgtagtca

180
 gcctagactt ctgcccactg accttttngg gcactgagaa cacatccacg ctctgtctgt

240
 atctagttct ggcttctgct gtgtgctang cccagctct gaggagtaac agctgatccc

300
 aaaggtccaa gccaaccttc ttaccctca gccccancc cgat

344

<210> 17
 <211> 300
 <212> DNA
 <213> rattus norvegicus

<400> 17
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 accccagcag gaagaagact gggcgcagtc tagagttcct agtcaagagt aggaagggtt

120
 ctgttatacc catcatagaa cgagagaggg ggctcaatag atcatcccct ttgtctctcc

180
 acggggcttc ttgagcttct caaagttctt caggatgatg tcatataaca cagcataagc

240
 gttacggatc tccatgacca tcagccggat ctctgggtat tccgcctcgt ccagctcggc

300

<210> 18
 <211> 461
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 3, 161, 181, 190, 459
 <223> c, t, a or g

<221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 18

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aattaaagaa cttttaagca gatgttttgg tgcaactaat agaaaagata aaggcagcct

120
gacatgcatg cactgcctca gtgaccagta aagtcacatg nccttgggac gtcagcttag

180
ntttatcacn gtgtcccagg ggtgcttgtc aaagagatat tctgccatgc cagattcagg

240
ggctcccatc ttgcgtaagt tggtcacgtg gtcacccagt tctttaatgg atttcacctg

300
ctcattcagg taatgcgtct caatgaagtc acataagtgg ggatcattct tgtcagtagc

360
cagtttgtga agttccagta gtgactgatt cacactcttt tccaagtga gtgcacactc

420
cattgcattc agcccgctct cccagtcac acggtcacnt a

461

<210> 19
<211> 280
<212> DNA
<213> rattus norvegicus

<400> 19
tgacgtaggg ccgagagcaa caagcacaga actccttctc cagtttcacc ctgatgaagt 60
tgaggcactc ttctgcactg ggagggggcca gcctgggggc caggcacatt ggacaccacc

120
ttcccatgga ctacagcgtc aatgccattg ccttctattc ctataccttc taggggctgc

180
ccctcttccc attcagccaa cactgagtgt tgggagattt ctctttttta aaaacacatg

240
agaaaataaa tgcactttac tccctcccca aaaaaaaaaa

280

<210> 20
<211> 177
<212> DNA
<213> rattus norvegicus

<400> 20
gtaggcaata aaatgttttc agaggtgcga aaaagctttt gttttcttaa accattctta 60
gtctctgcc cacttgacac tccgtcaaag tgagaagcga actaaagacc aactgcggtg

120
gaaaatatta tgtttatgta ataaaaaaaa atcatgtaac tgcaaaaaaaaa aaaaaaa

177

<210> 21
<211> 633
<212> DNA
<213> rattus norvegicus

<220>

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<221> unsure
 <222> 449, 476, 478, 520, 526, 535, 570, 573, 581, 615, 619, 628
 <223> c, t, a or g

 <221> misc_feature
 <222> (1)...(633)
 <223> n = A,T,C or G

 <400> 21
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 atactctttg gataagaacc ccggccttgt taccaggtac cggagtgagc tgaaaaattt

 120
 accgtcgaaa tgggtgatgt cctggaaaaa atggttcacc agctgccagg cagattcttt

 180
 gggttccaca ttttctgcc cacagatgtg gcagaagcgg tcaagtaatg cagcattaca

 240
 attgaggcag atcttttctt ttctttcctt ggagtggctc aaccagcgat tttggttaaa

 300
 aataatcaaa aaagcgacgg caaaactttt gttatattcc cgcctgtggc atttgaactg

 360
 tgcccggcaa ccgaataact tttaattttg aaaataaaat gcatactaga tttttagcgg

 420
 ttgcctcctg gccattgctt caggcgccng cacagcgtca gccagtttt accacnanga

 480
 atatcctaag cgttgaaaca gggcacagcc gaaaaaaacn ctggcnacaa aaaanatccg

 540
 gacatccttt ttccaatttt gaaaccgaan gcncgcaaac naaggttctt cgggaaaaaa

 600
 aatcgccaaa atacncgana tcaaactntc caa

 633

 <210> 22
 <211> 213
 <212> DNA
 <213> rattus norvegicus

 <400> 22
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 tagaagtaat aagaacttca caagtagaac aacagagtta attgacctt atcctaaga

 120
 gttaccagag aattattaaa aaactaaaga acaatcaaag cctggtcctg tgccaccacc

 180
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 213

 <210> 23
 <211> 679
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 5, 11, 12, 13, 16, 18, 21, 23, 30, 36, 40, 41, 48, 50, 53,
 55, 56, 59, 72, 91, 92, 103, 106, 120, 123, 129, 133, 136
 <223> c, t, a or g

 <221> unsure
 <222> 138, 143, 153, 155, 157, 165, 168, 171, 175, 178, 180, 181,
 182, 194, 200, 205, 207, 210, 213, 214, 225, 232, 244, 274,
 <223> c, t, a or g

 <221> unsure
 <222> 281, 285, 294, 299, 313, 349, 353, 358, 360, 374, 386, 388,
 411, 414, 415, 452, 482, 487, 497, 499, 513, 540, 542, 556,
 <223> c, t, a or g

 <221> unsure
 <222> 558, 559, 563, 597, 608, 621, 647, 661, 662, 671, 675
 <223> c, t, a or g

 <221> misc_feature
 <222> (1)...(679)
 <223> n = A,T,C or G

 <400> 23
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 120
 tcnctcctnc agnctntncg tgnctctcct gtncntncac tgccncanaa nggangcncn
 180
 nnctcctatc tgtntacagn aaacntngcn cttnctctaa gctcnccac tntgtggaaa
 240
 ggcnatgtgt gcgtgcctct cccctatcac ggcngtttgc naaangggga tgnctgcnc
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 360
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 420
 tctttaaag gtggctaacg gcgcttccta gnataaacac tattggtccc cccctctgca
 480
 gnaccntta cttccgnana aaaattgttg tcntgatccg cgacaaccac accgtctgtn
 540
 gnttttagtt gcaacncna tcnctccaaa aaagtttcag aaatcttcat tttccnnggt
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 660
 nntccaaaag nctancgat
 679

 <210> 24
 <211> 1150
 <212> DNA

<213> rattus norvegicus

<400> 24

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120

caaatcactg gctgattggc acaggtacct gtgtggagag gatcaatgag atggtggaca

180

gggctaaacg gaaggctgga gtggatcctc tggtagccct tcgaagcctg ggcttgtccc

240

tgagtgggtg ggagcaggag gatgcagtga ggctcctgat ggaggagttg agggaccgat

300

ttccctacct gagtgaaggt tacttcatca ccaactgatgc agcaggttcc atcgccacag

360

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420

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480

cagcctactg gattgcacac caagctgtga aaattgtgtt tgactccatt gacaacctgg

540

aagcagctcc tcatgatatt ggccatgtca agcaggccat gttcaactac ttccagggtc

600

cagatcggct aggaatcctc actcacttgt atagggactt tgataagtcc aagtttgctg

660

gattttgtca gaaaattgca gaaggtgcac agcagggaga ccctctttcc aggttcatct

720

tcagaaaggc tggggagatg ctgggcagac acgttgtggc agtattgcca gagattgacc

780

cagttttgtt ccaaggggag cttggcctcc ccattctgtg tgtgggctca gtgtggaaga

840

gctgggagct actgaaggaa ggctttctcc tggcactgac gcagggccga gagcaacagg

900

cacagaactc cttctccagt ttcaccctga tgaagttgag gcactcttct gcactgggag

960

gggccagcct gggggccagg cacattggac accaccttcc catggactac agcgtcaatg

1020

ccattgcctt ctattcctat accttctagg ggctgcccct cttcccatc agccaacact

1080

gagtgttggg agatttctct tttttaaaaa cacatgagaa aataaatgca ctttactccc

1140

tccccaaaaa

1150

<210> 25

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<211> 348
<212> PRT
<213> rattus norvegicus

<400> 25

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Ala Glu Ala Asp Gly Leu Ser Thr Asn His Trp Leu Ile Gly Thr Gly
 35      40      45
Thr Cys Val Glu Arg Ile Asn Glu Met Val Asp Arg Ala Lys Arg Lys
 50      55      60
Ala Gly Val Asp Pro Leu Val Pro Leu Arg Ser Leu Gly Leu Ser Leu
 65      70      75
Ser Gly Gly Glu Gln Glu Asp Ala Val Arg Leu Leu Met Glu Glu Leu
 85      90      95
Arg Asp Arg Phe Pro Tyr Leu Ser Glu Ser Tyr Phe Ile Thr Thr Asp
100      105      110
Ala Ala Gly Ser Ile Ala Thr Ala Thr Pro Asp Gly Gly Ile Val Leu
115      120      125
Ile Ser Gly Thr Gly Ser Asn Cys Arg Leu Ile Asn Pro Asp Gly Ser
130      135      140
Glu Ser Gly Cys Gly Gly Trp Gly His Met Met Gly Asp Glu Gly Ser
145      150      155
Ala Tyr Trp Ile Ala His Gln Ala Val Lys Ile Val Phe Asp Ser Ile
165      170      175
Asp Asn Leu Glu Ala Ala Pro His Asp Ile Gly His Val Lys Gln Ala
180      185      190
Met Phe Asn Tyr Phe Gln Val Pro Asp Arg Leu Gly Ile Leu Thr His
195      200      205
Leu Tyr Arg Asp Phe Asp Lys Ser Lys Phe Ala Gly Phe Cys Gln Lys
210      215      220
Ile Ala Glu Gly Ala Gln Gln Gly Asp Pro Leu Ser Arg Phe Ile Phe
225      230      235
Arg Lys Ala Gly Glu Met Leu Gly Arg His Val Val Ala Val Leu Pro
245      250      255
Glu Ile Asp Pro Val Leu Phe Gln Gly Glu Leu Gly Leu Pro Ile Leu
260      265      270
Cys Val Gly Ser Val Trp Lys Ser Trp Glu Leu Leu Lys Glu Gly Phe
275      280      285
Leu Leu Ala Leu Thr Gln Gly Arg Glu Gln Gln Ala Gln Asn Ser Phe
290      295      300
Ser Ser Phe Thr Leu Met Lys Leu Arg His Ser Ser Ala Leu Gly Gly
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325      330      335
Ser Val Asn Ala Ile Ala Phe Tyr Ser Tyr Thr Phe
340      345

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<210> 26
<211> 800
<212> DNA
<213> rattus norvegicus

<400> 26

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120

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cgcggcgagc agctcttcag tgaagaagga agcaatcgga gggtcagcaa tgaacgtgga

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180
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240
gaaactgagt gtgaagtttg gggtcctctt ccaagacgac agatgtgcca atctctttga
300
aaccgttggt gggaactctg aaagcccgca aaacgaagga agattgttac gtacgcagaa
360
gagctgcttt tgcaagggtg tcatgatgat gttgacattg tattgctgca agattaatgt
420
ggtttgcaga tctgggggta tctggtaaac tggaataatt aagttaaagg acaaacatga
480
agttccttat gtatTTTTat agaccttTgt aaacaaaagg ggacttgTtg agaagtcctg
540
ttttataacc ttggagcaaa acattacaat gtaaaaaataa aaaaacctg ttatTTTTtt
600
tttcttaaga aggtaatcgg gagacgtagg caataaaatg ttttcagagg tgcgaaaaag
660
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720
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gtaaaaaaaa aaaaaaaaaa

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<210> 27
<211> 92
<212> PRT
<213> rattus norvegicus

<400> 27
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20 25 30
Leu Phe Gln Asp Asp Arg Cys Ala Asn Leu Phe Glu Thr Val Gly Gly
35 40 45
Asn Ser Glu Ser Pro Gln Asn Glu Gly Arg Leu Leu Arg Thr Gln Lys
50 55 60
Ser Cys Phe Cys Lys Val Phe Met Met Met Leu Thr Leu Tyr Cys Cys
65 70 75 80
Lys Ile Asn Val Val Cys Arg Ser Gly Gly Ile Trp
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<210> 28
<211> 1538
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 652, 1523

<223> c, t, a or g

<221> misc_feature

<222> (1)...(1538)

<223> n = A,T,C or G

<400> 28

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120

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180

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240

cagagaacat ccctgcgggc tatgaagtgg tgtctctcct ggaggccctc aatgggcccc

300

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360

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420

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720

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780

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840

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900

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960

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1020

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1080

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1140

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1538

<210> 29
<211> 404
<212> PRT
<213> rattus norvegicus

<220>
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<221> VARIANT
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<223> Xaa = Any Amino Acid

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20 25 30
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35 40 45
Arg Ala Met Arg Lys Lys Leu Gly Pro Leu Ser Pro Ser Ser Phe Asn
50 55 60
Pro Ile Ile Ser Ser Gln Thr Ser Asp Ser Glu Glu His Ser Ser Ser
65 70 75 80
Glu Asn Ile Pro Ala Gly Tyr Glu Val Val Ser Leu Leu Glu Ala Leu
85 90 95
Asn Gly Pro Leu Thr Ser Ser Pro Ala Val Pro Pro Leu His Val Leu
100 105 110
Gly Asp Gly His Leu Ser Gly Met Leu Pro Ser Tyr Gly Ser Asp Gly
115 120 125
His Leu Pro Pro Val Arg Thr Leu Ser Pro Leu Asp His Leu Ser Asp
130 135 140
Cys Asn Ser Gln Gly Leu Lys Leu Asn Lys Ser Leu Ser Lys Ser Ile
145 150 155 160
Ser Gln Asn Ser Ser Val Leu His Glu Glu Glu Asp Glu Arg Ser Cys
165 170 175
Ser Glu Ser Asp Thr Gln Leu Ser Gln Arg Leu Ser Ala Gln His Pro
180 185 190
Glu Glu Gly Pro Asp Val Thr Pro Glu Ser Glu Asn Leu Thr Leu Ser
195 200 205
Ser Ser Gly Ala Val Asp Gln Ser Xaa Cys Thr Gly Thr Pro Leu Ser
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[illegible]

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<211> 922
<212> DNA
<213> rattus norvegicus
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ccgctgcagc ctctgacac ggtgatccgg gcgggccccg caggaatttt atccccac

180
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240
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300
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360
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420
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480
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540
aagatgaacc cgaacatgtg gcgagtttct taaatggttt tgttgtctaa ctcagtttgg

600
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660
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720
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922

<210> 31
<211> 113
<212> PRT
<213> rattus norvegicus

<400> 31
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Ile Arg Ile Gln Gln Arg Asn Gly Arg Lys Thr Leu Thr Thr Val Gln
35 40 45
Gly Ile Ala Asp Asp Tyr Asp Lys Lys Lys Leu Val Lys Ala Phe Lys
50 55 60
Lys Lys Phe Ala Cys Asn Gly Thr Val Ile Glu His Pro Glu Tyr Gly
65 70 75 80
Glu Val Ile Gln Leu Gln Gly Asp Gln Arg Lys Asn Ile Cys Gln Phe
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Leu Leu Glu Val Gly Ile Val Lys Glu Gln Leu Lys Val His Gly
100 105 110
Phe

<210> 32
<211> 1856
<212> DNA
<213> rattus norvegicus

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420
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1680

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1740

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1856

<210> 33

<211> 134

<212> PRT

<213> rattus norvegicus

<400> 33

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			20					25					30		
Thr	Pro	Ser	Ala	Val	Asn	Lys	Ile	Lys	Gln	Leu	Leu	Lys	Asp	Lys	Pro
		35				40						45			
Glu	His	Val	Gly	Leu	Lys	Val	Gly	Val	Arg	Thr	Arg	Gly	Cys	Asn	Gly
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65					70					75				80	
Glu	Val	Ile	Gln	Asp	Gly	Val	Arg	Val	Phe	Ile	Glu	Lys	Lys	Ala	Gln
			85						90					95	
Leu	Thr	Leu	Leu	Gly	Thr	Glu	Met	Asp	Tyr	Val	Glu	Asp	Lys	Leu	Ser
			100					105					110		
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<210> 34

<211> 1925

<212> DNA

<213> rattus norvegicus

<400> 34

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120

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180

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240

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960
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1195

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<211> 1149
<212> DNA
<213> rattus norvegicus

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720
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840

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960

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1149

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<211> 717

<212> PRT

<213> rattus norvegicus

<400> 37

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Cys	Asn	Thr	Cys	Cys	Asn	Cys	Gly	Ala	Thr	Cys	Asn	Cys	Ala	Gly	Ala
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Thr	Ala	Cys	Asn	Asn	Gly	Cys	Asn	Cys	Ala	Cys	Cys	Gly	Gly	Asn	Asn
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Thr	Cys	Cys	Asn	Cys	Cys	Ala	Thr	Cys	Thr	Cys	Thr	Cys	Asn	Thr	Cys
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225					230					235					240
Asn	Asn	Cys	Thr	Cys	Ala	Gly	Thr	Gly	Thr	Asn	Cys	Ala	Cys	Cys	Thr
				245					250					255	
Thr	Cys	Cys	Ala	Cys	Thr	Asn	Cys	Asn	Gly	Ala	Ala	Asn	Cys	Thr	Asn
			260					265					270		
Asn	Thr	Cys	Gly	Cys	Thr	Asn	Cys	Asn	Cys	Cys	Asn	Cys	Asn	Gly	Thr
		275					280					285			
Thr	Gly	Gly	Gly	Ala	Ala	Ala	Gly	Gly	Cys	Gly	Ala	Asn	Cys	Asn	Gly
	290					295					300				

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Thr 305	Asn	Cys	Cys	Gly	Gly 310	Cys	Asn	Ala	Cys	Ala 315	Thr	Gly	Cys	Cys	Gly 320
Thr	Thr	Thr	Asn	Cys 325	Gly	Asn	Cys	Asn	Thr 330	Cys	Thr	Gly	Asn	Asn 335	Cys
Ala	Cys	Asn	Thr 340	Gly	Gly	Gly	Gly	Ala 345	Thr	Cys	Thr	Asn	Cys 350	Thr	Asn
Cys	Ala	Ala 355	Asn	Gly	Asn	Ala	Ala 360	Thr	Cys	Ala	Ala	Thr 365	Thr	Asn	Gly
Asn	Gly 370	Thr	Ala	Ala	Cys	Cys 375	Cys	Ala	Cys	Gly	Gly 380	Thr	Thr	Thr	Asn
Cys 385	Asn	Cys	Ala	Ala	Thr 390	Cys	Ala	Cys	Thr	Ala 395	Cys	Thr	Thr	Cys	Thr 400
Cys	Ala	Asn	Asn	Cys 405	Asn	Ala	Asn	Gly	Gly 410	Cys	Cys	Asn	Thr	Thr 415	Gly
Ala	Ala	Asn 420	Thr	Gly	Thr	Thr	Ala	Thr 425	Cys	Cys	Cys	Ala	Cys 430	Cys	Ala
Cys	Cys	Ala 435	Asn	Gly	Gly	Gly	Gly 440	Cys	Asn	Ala	Asn	Thr 445	Cys	Gly	Gly
Gly	Ala 450	Cys	Cys	Thr	Asn	Ala 455	Cys	Ala	Ala	Thr	Thr 460	Cys	Ala	Thr	Cys
Cys 465	Thr	Cys	Ala	Gly	Cys 470	Cys	Gly	Gly	Cys	Cys 475	Cys	Cys	Ala	Gly	Asn 480
Cys	Thr	Thr	Ala	Ala 485	Ala	Ala	Ala	Ala	Thr 490	Thr	Cys	Ala	Ala 495	Ala	Gly
Gly	Asn	Cys	Asn 500	Cys	Thr	Thr	Gly	Cys 505	Cys	Cys	Gly	Cys	Asn 510	Thr	Thr
Asn	Thr 515	Thr	Asn	Cys	Cys	Thr	Thr 520	Ala	Gly	Cys	Cys	Cys 525	Gly	Cys	Cys
Asn	Cys 530	Cys	Asn	Gly	Ala	Cys 535	Ala	Ala	Cys	Ala	Asn 540	Cys	Cys	Asn	Ala
Asn 545	Asn	Ala	Ala	Cys	Ala 550	Ala	Cys	Cys	Cys	Cys 555	Cys	Asn	Asn	Thr	Cys 560
Thr	Thr	Ala	Asn	Gly 565	Thr	Thr	Gly	Cys	Asn 570	Asn	Ala	Asn	Cys 575	Cys	Cys
Ala	Cys	Ala	Gly 580	Gly	Ala	Asn	Asn	Thr 585	Thr	Gly	Asn	Asn 590	Ala	Thr	Ala
Cys	Cys	Gly 595	Gly	Gly	Thr	Thr	Thr 600	Cys	Cys	Cys	Cys	Asn 605	Gly	Ala	Ala
Ala	Cys 610	Thr	Asn	Cys	Thr	Cys 615	Ala	Ala	Asn	Gly	Cys 620	Cys	Asn	Cys	Cys
Gly 625	Thr	Thr	Cys	Cys	Ala 630	Ala	Cys	Cys	Cys	Cys 635	Cys	Gly	Thr	Thr	Ala 640
Cys	Gly	Ala	Ala	Ala 645	Cys	Cys	Gly	Thr	Asn 650	Cys	Cys	Cys	Asn	Thr 655	Thr
Thr	Cys	Cys	Thr 660	Thr	Cys	Cys	Gly	Ala 665	Gly	Asn	Thr	Thr 670	Gly	Cys	Cys
Thr	Ala	Thr 675	Thr	Ala	Ala	Asn	Asn 680	Cys	Cys	Cys	Cys	Cys 685	Asn	Ala	Ala
Gly	Thr 690	Thr	Cys	Thr	Asn	Cys 695	Thr	Thr	Cys	Gly	Thr 700	Thr	Asn	Gly	Asn
Thr 705	Thr	Cys	Cys	Thr	Cys 710	Cys	Gly	Ala	Ala	Ala 715	Asn	Gly			

<210> 38

<211> 235

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 10, 11, 12, 13, 18, 20, 29, 30, 31, 39, 40, 46, 47, 49,
58, 71, 84, 90, 103, 111, 123, 126, 139, 141, 165, 185, 192,

199

<223> c, t, a or g

<221> unsure

<222> 204, 211, 213, 214, 228

<223> c, t, a or g

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 38

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taatctacac nggagtctta agtngacaan cccacactgc ganggtcaag nggatcacca

120

tcnccnctc ccaagcttnt ncattgatgc tctctctgtt ccgtncctg ccgctacaca

180

tggangctct tntctcttnt ctctcttac nanncaaaca ttgccctntc tcata

235

<210> 39

<211> 328

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 6, 11, 12, 28, 37, 40, 50, 68, 74, 86, 89, 93, 101, 107,
117, 145, 159, 163, 164, 169, 172, 178, 179, 184, 186, 191

<223> c, t, a or g

<221> unsure

<222> 192, 203, 204, 205, 215, 218, 219, 228, 229, 232, 233,
235, 237, 239, 245, 247, 248, 250, 252, 254, 266, 274, 279

<223> c, t, a or g

<221> unsure

<222> 284, 288, 290, 300, 304, 312, 317, 322

<223> c, t, a or g

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 39

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tttttggnaa aaangggggg ggaaanaanc cgnttttccc naaaacngg gggaacnggc

120

cgggggggga aaaaaaaggg ttacnaaggg aaacctttna aannggaang gntttgcnn

180

cctntngaaa nntttgcccc ccnnnaggaa tcccnggna aaccaannc cnnncncng

240

ggggncnntn cnangggacc ccaacncggg ccnaactng gggnaaanan gggcaaaacn

300

ggtncggg gnaaaanggt anccccctc

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328

<210> 40
<211> 196
<212> DNA
<213> rattus norvegicus

<400> 40
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aagatcccaa acccaaaagc cacattgta attagccttt ttattgtgtt tttttttttt

120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

180
ttttggcagc tcggca

196

<210> 41
<211> 422
<212> DNA
<213> rattus norvegicus

<400> 41
tacgggagct gatttttacg aacattacct ggcaggggaa atttgataag tatccactgt 60
gggtggcgac tacctggtaa aagacaaacc ccgtgtgaaa aggccctgga ctttttgga

120
acacaacgaa accggccacg tgaatggcat ccggtcttat gtggacttca atgttttcaa

180
cggggacagc acagattttg ccgaactatt aatgaaataa tgcagaattt cgcttttcaa

240
ataagcccat ggatcctgac gtaaaatatt tcctgctggt gatcgtgcag tccatttcga

300
tgctcact ttggctgatg ctcaacatga cttttgggat ctattttaat ttgctttcc

360
ccgacaatgg tttgacgctt ggcaacatca ttattacct cttcctgctg ggcagctcgg

420
ca

422

<210> 42
<211> 304
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 2, 7, 71, 80, 87, 88, 92, 97, 98, 99, 103, 109, 110, 130,
133, 141, 147, 150, 159, 162, 165, 169, 172, 174, 179, 182
<223> c, t, a or g

<221> unsure
<222> 184, 190, 194, 195, 200, 202, 207, 209
<223> c, t, a or g

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<221> misc_feature

<222> (1)...(304)

<223> n = A,T,C or G

<400> 42

tncatangcc ctgaggtggg gacgaagccc gagtccgtcc tgacatgttt ccagtggaaa 60
agattttgtt ntgagcgtnn ctttctnnnt tnttttnnnt tgnttgtnn atgtttttgt

120

tgttgttttn ttnaaactgt ntgttgncan ttcaacatna anggnaggna antntgtgnc

180

tncnttgcan tgnncatgn tncccananc ccaaaaaaaaa aaaaaaaaaa aaaaagagta

240

caaatatcac aaaatttgac atttttgtaa taatactttg gttgttgttt ggtgacggcg

300

attg

304

NY02:364000.1

NY02:364000.1